From: GT700@dnvps.com [GT700@dnvps.com]

**Sent**: 1/31/2014 9:53:17 PM

**To**: Robert Love [rlove@aet-tankers.com]

CC: Eagle Sibu [Eagle.Sibu@aet-tankers.com]; AETSM - Team Atlantic [Team-Atl@aet-tankers.com]

Subject: EAGLE SIBU, FUEL ANALYSIS REPORT, GALVESTON, 10-JAN-2014, SAMPLE : HOU1402839

To: AMERICAN EAGLE TANKERS, INC. Attn: Mr Robert Love, Bunker Manager

Attn: Atlantic Fleet

Cc: The Master Of 'EAGLE SIBU'

Attn: Chief Engineer

DNV Petroleum Services - Fuel Analysis Report dated: 31-Jan-2014

# Vessel: EAGLE SIBU (9199828)

Sample Number Product Type Bunker Port Bunker Date Sampling Point Sampling Method Sent From Date Sent Arrived at Lab Supplier Loaded From Quantity per C.Eng.			HOU1402839 (HFO) GALVESTON 10-Jan-2014 SHIP MANIFOLD CONTINUOUS DRIP HOUSTON-DOWNTOWN 29-Jan-2014 30-Jan-2014 PENINSULA BUFFALO 400 910
Seal data		DNVPS,	SEAL INTACT, 7641633
Related Samples MARPOL Unknown Unknown Unknown			36438504 7641631 7641632 7641634
Receipt Data Source Of Data Density @ 15°C Viscosity @ 50°C Sulfur Volume @ 60°F Quantity		Unit kg/m³ mm²/s % m/m bbl MT	B.D.N. 990.3 345.7 2.53 5990.340 943.870
Tested Parameter Density @ 15°C Viscosity @ 50°C Water Micro Carbon Residue Sulfur Total Sediment Potential Ash Vanadium Sodium Aluminium Silicon	Unit kg/m³ mm²/s % V/V % m/m % m/m % m/m % m/m mg/kg mg/kg mg/kg mg/kg	Result 989.4 322.4 0.3 12 2.30 0.03 0.07 129 48 20 19	RMG380 991.0 380.0 0.5 18 3.50 0.10 0.15 300

mg/kg	36	
mg/kg	42	
mg/kg	25	
mg/kg	3	
mg/kg	9	
mg/kg	8	
mg/kg	2	
°C	LT 24	30
°C	GT 70	60
mg KOH/g	0.90	
mg KOH/g	0.00	
mg/kg	39	80
MJ/kg	40.34	
	852	
MT	940.887	
MT	-2.983	
	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg c c c mg KOH/g mg KOH/g mg KOH/g	mg/kg 42 mg/kg 25 mg/kg 3 mg/kg 9 mg/kg 8 mg/kg 2 °C LT 24 °C GT 70 mg KOH/g 0.90 mg KOH/g 0.00  mg/kg 39 MJ/kg 40.34 - 852 MT 940.887

#### Note:

LT means Less Than, GT means Greater Than. Quantity (Weight) is based on BDN Volume, DNVPS Density and a weight factor of  $1.1~{\rm kg/m^3}$  (ASTM D1250-80 Table 56).

# Specification Comparison:

Results compared with amended ISO 8217:2005 specification RMG380, table 2. Based on this sample the specification is met.

### Operational Advice :

Approximate fuel temperatures:

#### Injection:

140°C for 10 mm<sup>2</sup>/s 125°C for 15 mm<sup>2</sup>/s 115°C for 20 mm<sup>2</sup>/s 105°C for 25 mm<sup>2</sup>/s

Transfer:

40°C

Best Regards, On behalf of DNV Petroleum Services Pte Ltd Christian Ryder Assistant Technical Advisor

End of Report for EAGLE SIBU

If not properly aligned, please change font to Courier New, size 10.

Reference to part(s) of this report which may lead to misinterpretation is prohibited.

Please instruct your agent to use our appointed courier services for sending samples to our laboratory. Please refer to our Air Courier Directory for detailed information.

For technical or operational advice or further information on this report please contact your nearest DNVPS office or contact us directly at

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